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Assembly for working thixotropic materials has a number of workstations with a conveyor system including an electromagnetic stirrer and an ejector for the metal portions

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Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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Abstract (Basic): CH 690753 A5

Abstract (Basic):

NOVELTY - Assembly for working thixotropic materials has a number of workstations with a conveyor system including an electromagnetic stirrer and an ejector for the metal portions.

DETAILED DESCRIPTION - The assembly to work thixotropic materials, in a number of steps, has a conveyor system (2a,5) to deliver separate metal portions (10) from one station to the following station. At least one station has an electromagnetic stirrer (7) to agitate the metal and break up dendrites within its crystalline structure. The metal is molten during at least one stage. An ejector (9) ejects a thixotropic metal body (10) from its vessel (3) or cladding. The vessels (3) are of ceramic or graphite materials. At least one station is a die casting machine (1,2).

USE - The system is for casting components from thixotropic materials, smelted from cooled slabs or bars cut from a continuous die casting process.

ADVANTAGE - The technique gives increased efficiency, lower costs and requires less space.

DESCRIPTION OF DRAWING(S) - The drawing shows a perspective view of the material workstations.

Die casting machine (1,2)

Conveyor system (2a)

Vessels (3)

Conveyor system (5)

Stirrer (7)

Ejector (9)

Metal portions (10)

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